

MINES

OPEN FILE

ANNUAL REPORT

SCAMANDER GOLDFIELD

E.L. 24/82.

MINES	
File Ref. <u>E.L. 24/82</u>	
22 JUN 1988	
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Action Officer	Initials
REFERS TO	
LETTER 20.5.88	
Resubmit to	Date

1987 - 1988.

*pccr quality
+
tions plans.*

BRILLIANT CREEKEL 24/82.INTRODUCTION

The three main mines of interest in this area are the New Carthage, Trafalgar and Queen of the Earth. The other Mines are the Double Event and Golden Ridge. They were all abandoned about 1900 due to poor access, sulphide processing problems and lack of capital. Recorded crushings of 101 tonnes of ore from the Mines yielded 239.8 ounces of gold being an average grade of 2.37 ounces per ton for the field.

SALIENT GEOLOGY

The Southern extension of the Upper Devonian Mt. Pierson Pluton where it contacts the lower Devonian Mathinna beds covers the area of the field. It is marked by an East-West Trending Ridge which is in the centre of the licence area. The major area of mineralization generally runs North-South in fissures up to 30 metres in width. Extensive silicification, sericitization and fracturing occurs in the granite which is also mineralised.

EXPLORATION: PAST & FUTURE

Attached are reports showing the assay sites, geophysical site and scale maps of the work undertaken in two parts, i.e., The Queen of the Earth and The New Carthage and Trafalgar sites. The results shown as graphs and copies of the Analabs reports are self explanatory. (Sections A & B of the Report).

The Self Potential Survey was undertaken last August (to take advantage of wetter ground) and the assay sampling was done in April/May this year

The self potential survey is enclosed and is Section A of the report and was undertaken at a cost of \$3,100, Section B of the report is the assay sampling and the cost was \$5,820.

- 2 -

We intend to continue work on this Field and expect to eventually have a working Mine on this field. This years work will pursue some good leads unveiled by last years work. We intend to expend at least \$19,000 on Geophysics, Assays and Drilling.

015

781004

SECTION A.

SELF POTENTIAL SURVEY

AIM: To determine the effectiveness of self potential for defining quartz veining with sulphides in both Mathinna beds and granite.

METHOD: Two porous pots filled with copper sulphate solution were used to establish an electrical contact with two Ground Points, 5 metres apart, then at increasing intervals in units of 5 metres to determine current flow between those points, one point remaining fixed. The current flow was measured in millivolts, the change in potential difference between the pots was insignificant and was not corrected for.

RESULTS: Lines Q 1-4 and Lines C 1-4 were completed, the results were recorded, and then plotted onto the graphs 1-8. The steep slopes tended to have lower S.P readings the further up the slope; this is probably due to less ground water upslope. In general the anomalies were sharp and corresponded to the tough position of the known lodes with some new lodes discovered.

DISCUSSION: The method seems to have a degree of terrain effect, however the variance in values is not close to that of true anomalies and is fairly regular albeit at different mean values.

The difference between bedrock and scree was partially overcome by Auger but it was noted in the field differences of +10 millivolts depending on position in relation to bedrock and this probably is effected by water content of the scree. The best time for a survey, I would suggest, is after winter when ground water levels are high and good earthings can be achieved.

CONCLUSION: Self potential is a viable low cost method to define zones of fractures filled with sulphide in the Mathinna formations as well as in the granite and granodiorites.

QUEEN OF THE EARTH GOLD MINESELF POTENTIAL SURVEYAUGUST, 1987.

LINE Q 1.

CHECK .017

LENGTH 260 Metres.

START	METRES	READING	METRES	READING
	0		140	38
	5	30	145	35
	10	38	150	32
	15	36	155	33
	20	27	160	36
	25	22	165	39
	30	35	170	31
	35	28	175	37
	40	90	180	32
	45	110	185	60
	50	121	190	180
	55	130	195	35
	60	152	200	31
	65	150	205	37
	70	31	210	35
	75	36	215	31
	80	38	220	29
	85	65	225	34
	90	87	230	37
	95	98	235	35
	100	115	240	34
	105	139	245	31
	110	127	250	37
	115	22	255	35
	120	38	260	32
	125	28		
	130	28		
	135	33		

QUEEN OF THE EARTH GOLD MINESELF POTENTIAL SURVEYAUGUST, 1987

LINE Q 2.

LENGTH 245 METRES

CHECK 0.270

START	METRES	READING	METRES	READING
	0		135	35
	5	27	140	37
	10	24	145	37
	15	31	150	95
	20	33	155	157
	25	32	160	143
	30	33	165	140
	35	33	170	122
	40	28	175	23
	45	26	180	28
	50	125	185	29
	55	171	190	25
	60	105	195	25
	65	91	200	28
	70	31	205	31
	75	25	210	33
	80	28	215	30
	85	26	220	27
	90	29	225	26
	95	33	230	17
	100	23	235	24
	105	18	240	31
	110	31	245	30
	115	38		
	120	33		
	125	30		
	130	27		

QUEEN OF THE EARTH GOLD MINESELF POTENTIAL SURVEYAUGUST, 1987

LINE Q 3.

LENGTH 220 METRES

CHECK .200

	METRES	READING	METRES	READING
START	0		140	91
	5	17	145	63
	10	20	150	61
	15	16	155	18
	20	19	160	15
	25	21	165	18
	30	18	170	21
	35	17	175	21
	40	23	180	14
	45	20	185	81
	50	18	190	93
	55	21	195	17
	60	19	200	140
	65	14	205	119
	70	130	210	89
	75	143	215	76
	80	102	220	13
	85	16		
	90	18		
	95	21		
	100	14		
	105	17		
	110	117		
	115	18		
	120	23		
	125	125		
	130	133		
	135	105		

QUEEN OF THE EARTH GOLD MINESELF POTENTIAL SURVEYAUGUST, 1987

LINE Q 4.

LENGTH 200 METRES

CHECK .580

	METRES	READING	METRES	READING
START	0		135	165
	5	15	140	120
	10	17	145	30
	15	13	150	37
	20	9	155	24
	25	11	160	63
	30	23	165	31
	35	14	170	28
	40	16	175	21
	45	16	180	26
	50	16	185	18
	55	28	190	17
	60	19	195	15
	65	7	200	9
	70	12		
	75	18		
	80	30		
	85	65		
	90	41		
	95	48		
	100	20		
	105	8		
	110	7		
	115	15		
	120	22		
	125	95		
	130	160		

NEW CARTHAGE & TRAFALGARSELF POTENTIAL SURVEYAUGUST, 1987

LINE C1.

250 METRES

READINGS IN MILLIVOLTS

CHECK .075.

START	METRES	READING	METRES	READING
	0		150	20
	5	20	155	115
	10	29	160	130
	15	23	165	107
	20	23	170	9
	25	28	175	8
	30	26	180	8
	35	61	185	12
	40	80	190	7
	45	25	195	6
	50	27	200	10
	55	21	205	4
	60	26	210	15
	65	81	215	17
	70	135	220	15
	75	135	225	13
	80	110	230	12
	85	31	235	10
	90	23	240	18
	95	27	245	22
	100	25	250	9
	105	18		
	110	16		
	115	21		
	120	25		
	125	22		
	130	20		
	135	20		
	140	20		
	145	24		

NEW CARTHAGE & TRAFALGARSELF POTENTIAL SURVEYAUGUST, 1987

LINE C2.

LENGTH 250 METRES

READINGS IN MILLIVOLTS.

CHECK .083.

START	METRES	READING	METRES	READING
	0		135	16
	5	9	140	7
	10	7	145	23
	15	4	150	170
	20	1	155	114
	25	6	160	105
	30	11	165	68
	35	15	170	25
	40	13	175	17
	45	7	180	15
	50	12	185	12
	55	12	190	9
	60	18	195	27
	65	9	200	1
	70	5	202	7
	75	6	210	4
	80	27	215	11
	85	72	220	12
	90	55	225	87
	95	137	230	128
	100	150	235	145
	105	107	240	12
	110	18	245	8
	115	16	250	3
	120	12		
	125	15		
	130	9		

024

NEW CARTHAGE & TRAFALGAR

SELF POTENTIAL SURVEY

AUGUST, 1987

LINE 3.

LENGTH 250 METRES

READINGS IN MILLIVOLTS

CHECK .027.

START

METRES	READING	METRES	READING
0		135	12
5	25	140	21
10	33	145	30
15	29	150	38
20	24	155	28
25	27	160	26
30	18	165	17
35	28	170	20
40	35	175	25
45	31	180	107
50	28	185	170
55	28	190	121
60	28	195	110
65	30	200	73
70	31	205	23
75	27	210	16
80	18	215	13
85	15	220	9
90	13	225	11
95	21	230	17
100	60	235	21
105	77	240	28
110	93	245	26
115	125	250	21
120	155		
125	58		
130	45		

NEW CARTHAGE & TRAFALGARSELF POTENTIAL SURVEYAUGUST, 1987

LINE C4

LENGTH 250 METRES

READINGS IN MILLIVOLTS.

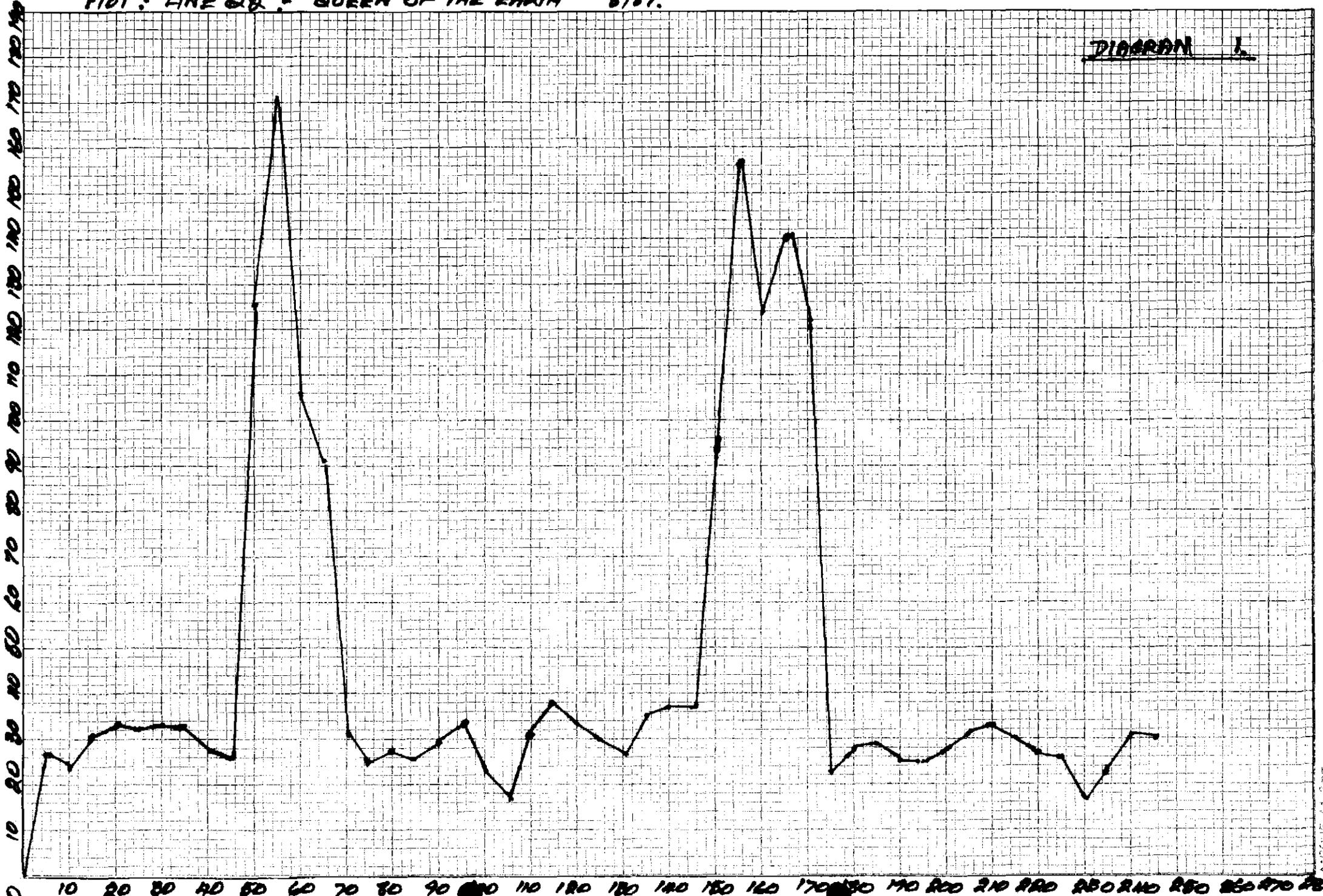
CHECK .058.

	METRES	READINGS	METRES	READINGS
START	0		135	70
	5	16	140	50
	10	15	145	33
	15	22	150	18
	20	17	155	20
	25	12	160	19
	30	24	165	16
	35	16	170	13
	40	17	175	21
	45	12	180	16
	50	9	185	12
	55	20	190	9
	60	23	195	7
	65	28	200	67
	70	26	205	101
	75	21	210	140
	80	20	215	120
	85	17	220	70
	90	17	225	6
	95	19	230	18
	100	28	235	15
	105	37	240	22
	110	83	245	17
	115	89	250	12
	120	130		
	125	127		
	130	128		

HOT: LINE Q2: QUEEN OF THE EARTH 8/57.

DIAGRAM 1

READINGS IN MILLIMETRES.



DISTANCE IN METRES.

026

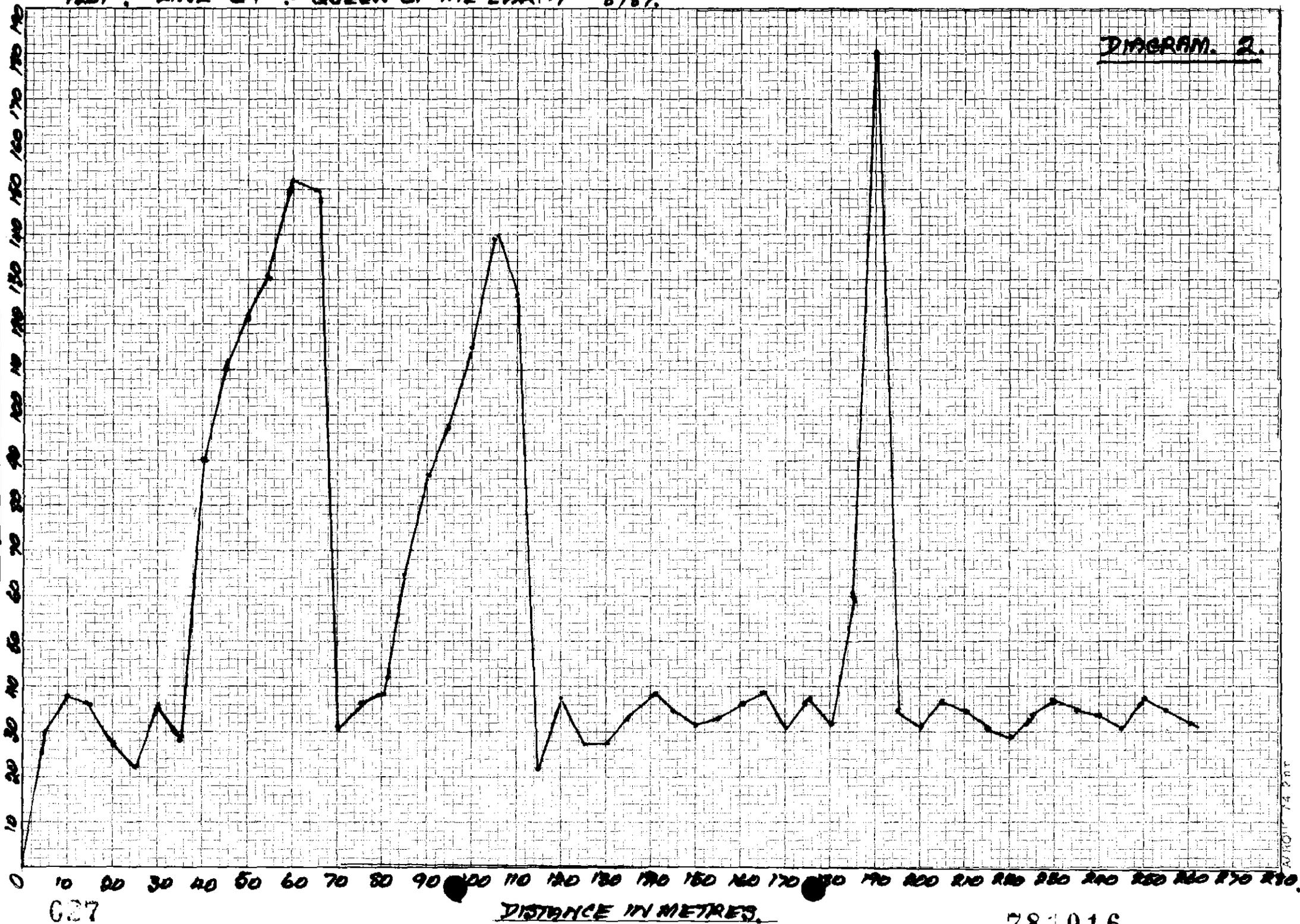
78 015

SCALE 1:1

PLOT: LINE 01 :- QUEEN OF THE EARLY 8/87.

DIAGRAM. 2.

READINGS IN MILLIVOLTS.



0.27

DISTANCE IN METRES.

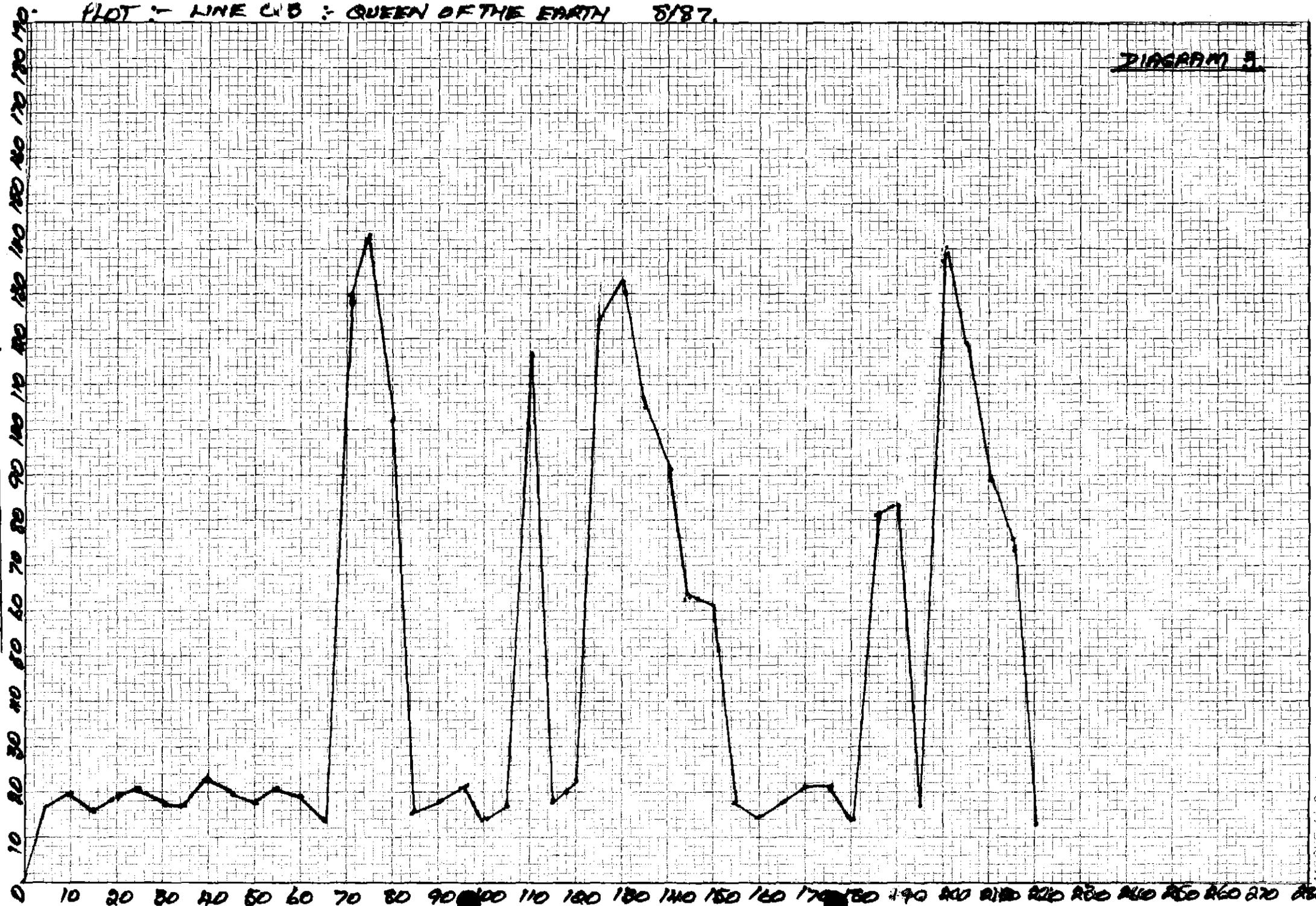
781016

AUTOM 74 PNT

PLOT :- LINE CUB :- QUEEN OF THE EARTH 8/87.

DIAGRAM 3.

READINGS IN MILLIVOLTS



078

DISTANCE IN METRE

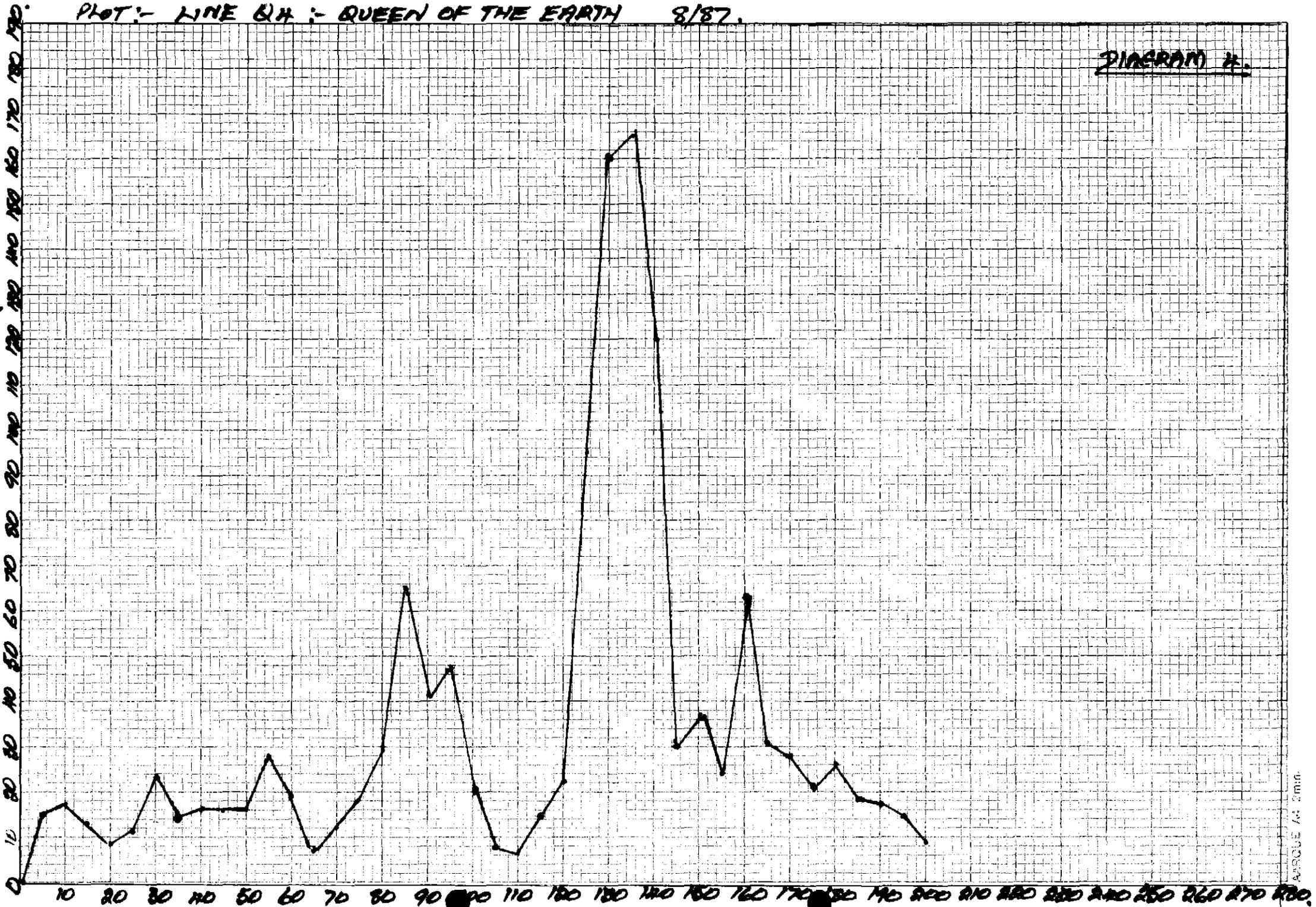
781017

ALSO SEE AT 2100

PLOT:- LINE G.H. :- QUEEN OF THE EARTH 8/87.

DIAGRAM #.

READINGS IN MILLIVOLTS.



G.29

DISTANCE IN METRES.

781018

APR 20 1987

Plot - LINE 1. - NEW CARTRIDGE 0 TAPFA/GAR, 8/87.

DIAGRAM 5.

Readings in Millivolts.



600

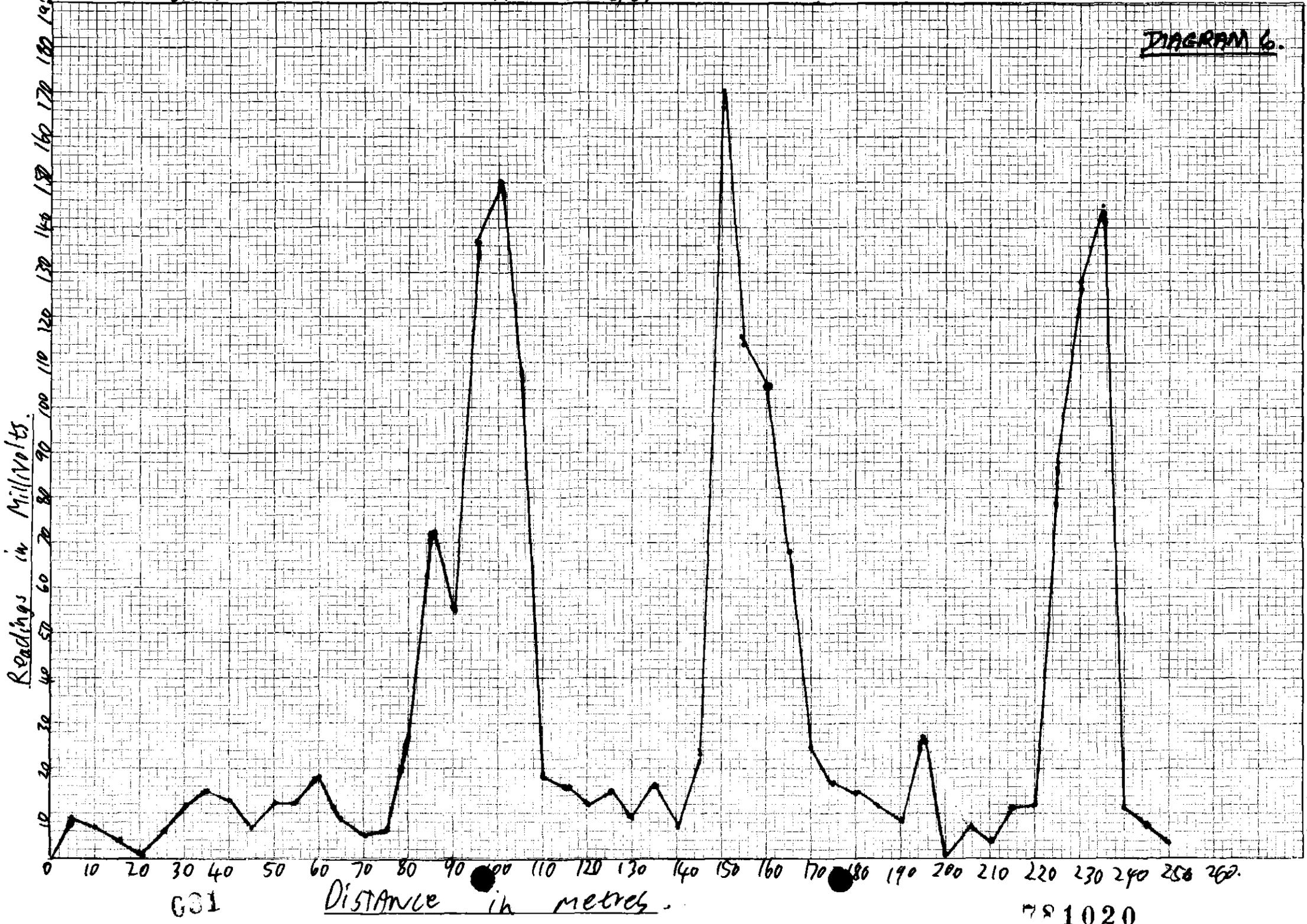
Distance in Metres.

781019

SCALE 74 2mm.

POINT: LINEC2. :- NEW CATHODE & TRAFALGAR 8/57

DIAGRAM 6.



G31

Distance in metres.

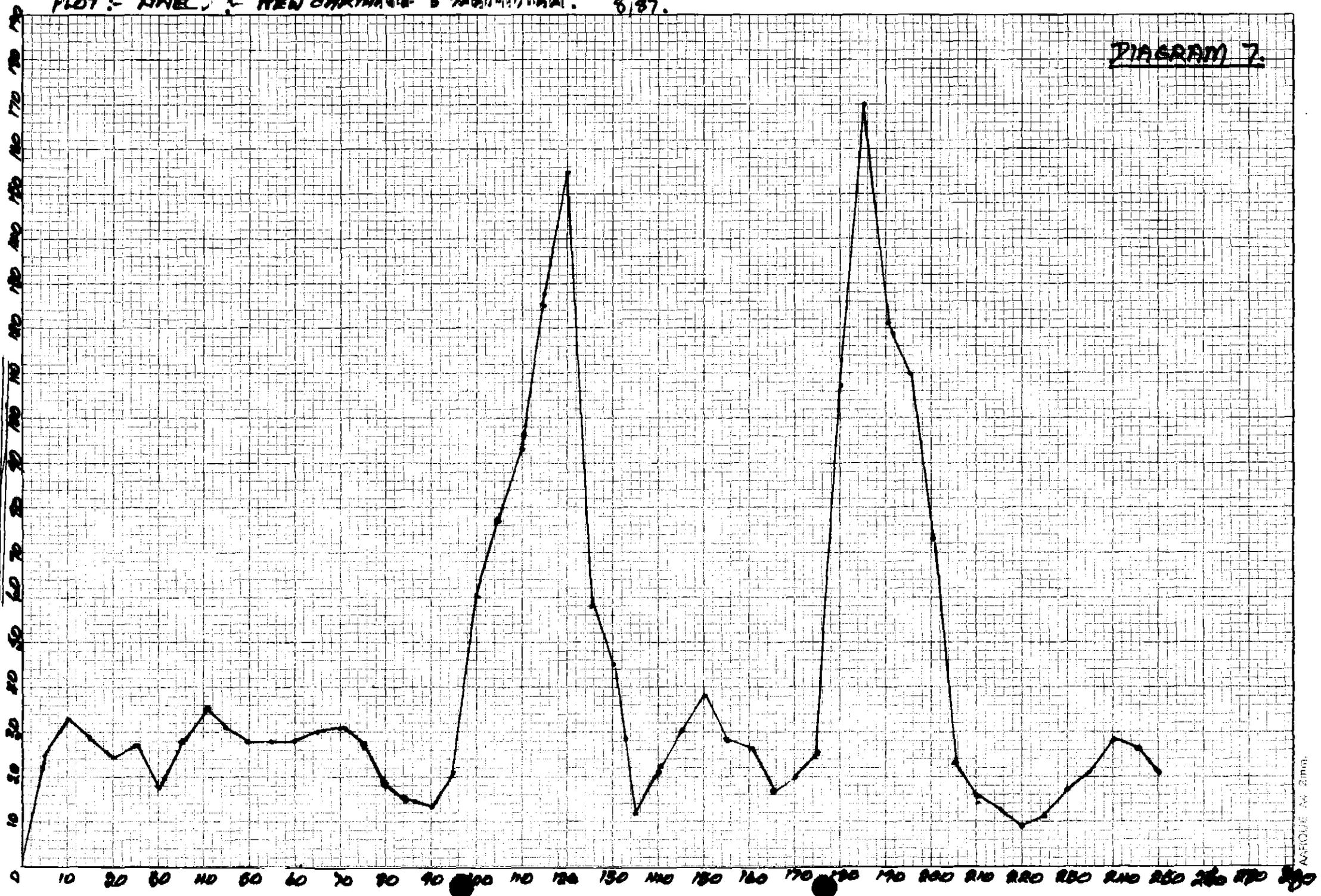
781020

AVOUCÉ 4/2/1957

PLOT:- LINE & NEW ORTHOGRAPHIC & TRANSMISSION. 8/87.

DIAGRAM 7.

READINGS IN MILLIVOLTS.



632

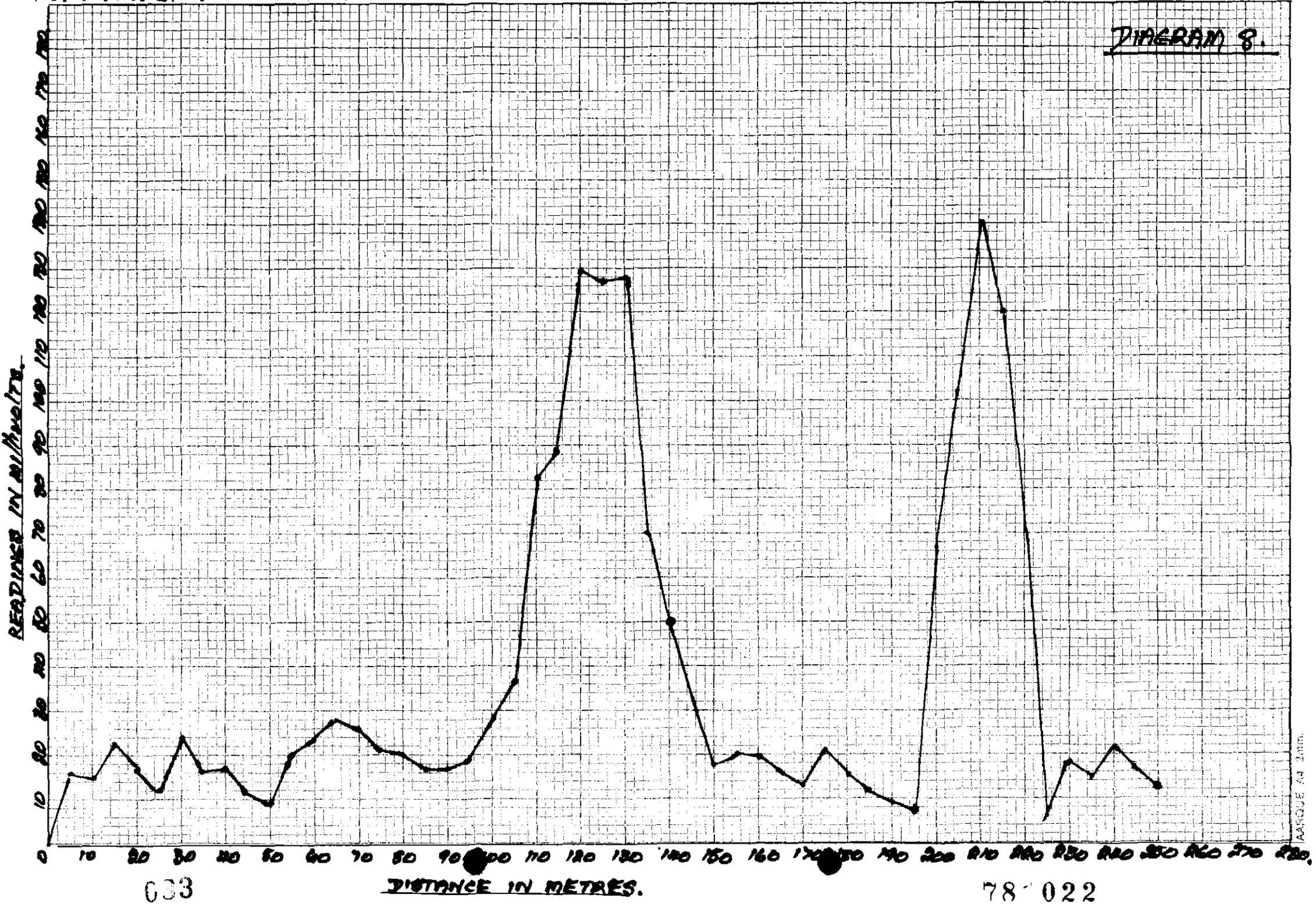
DISTANCE IN METRES.

781021

ASFOUR 30 20mm

PLOT: HNECH :- NEW CARTHAGE @ TAAFRAIGAR 1/87.

DIAGRAM 8.

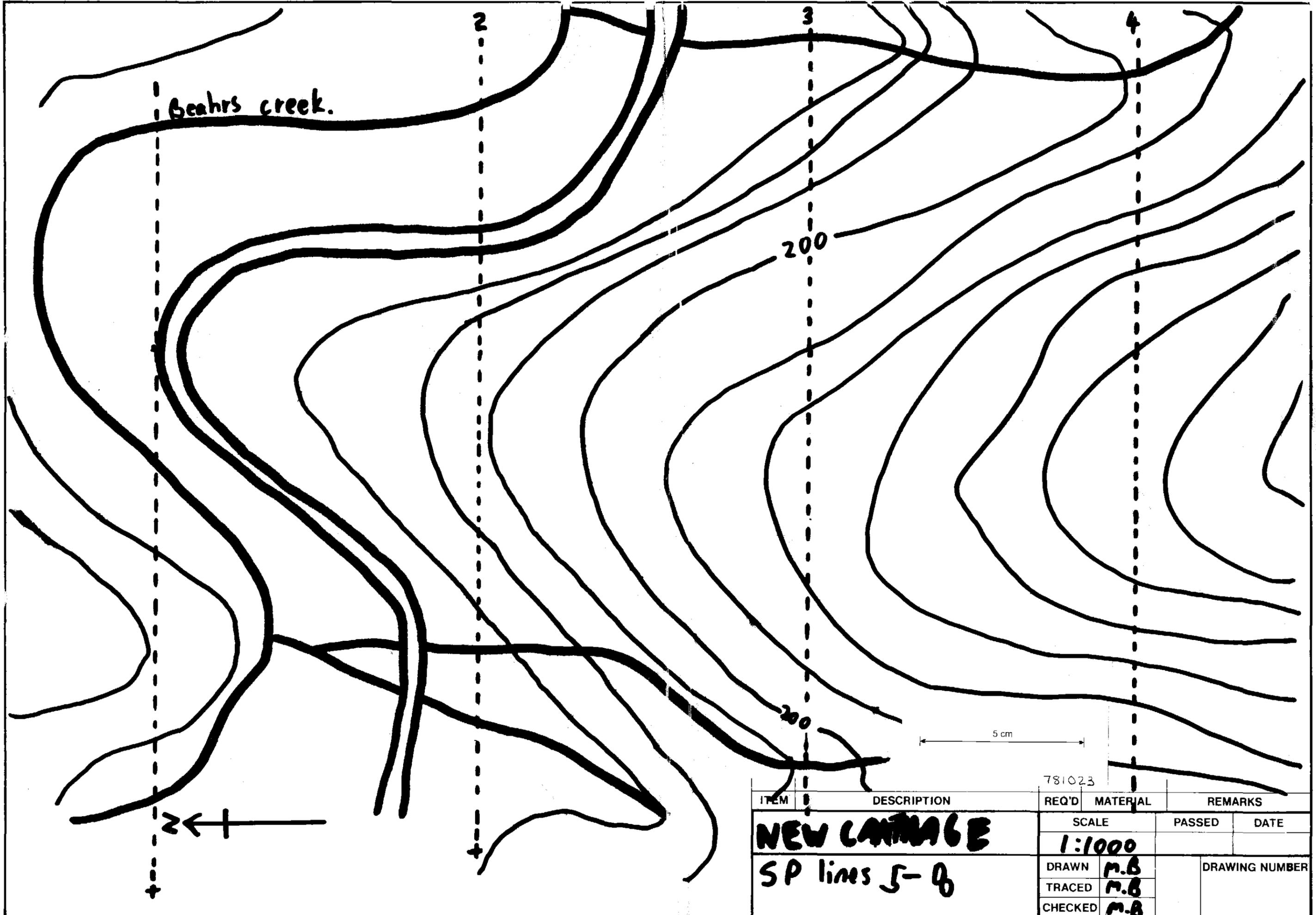


003

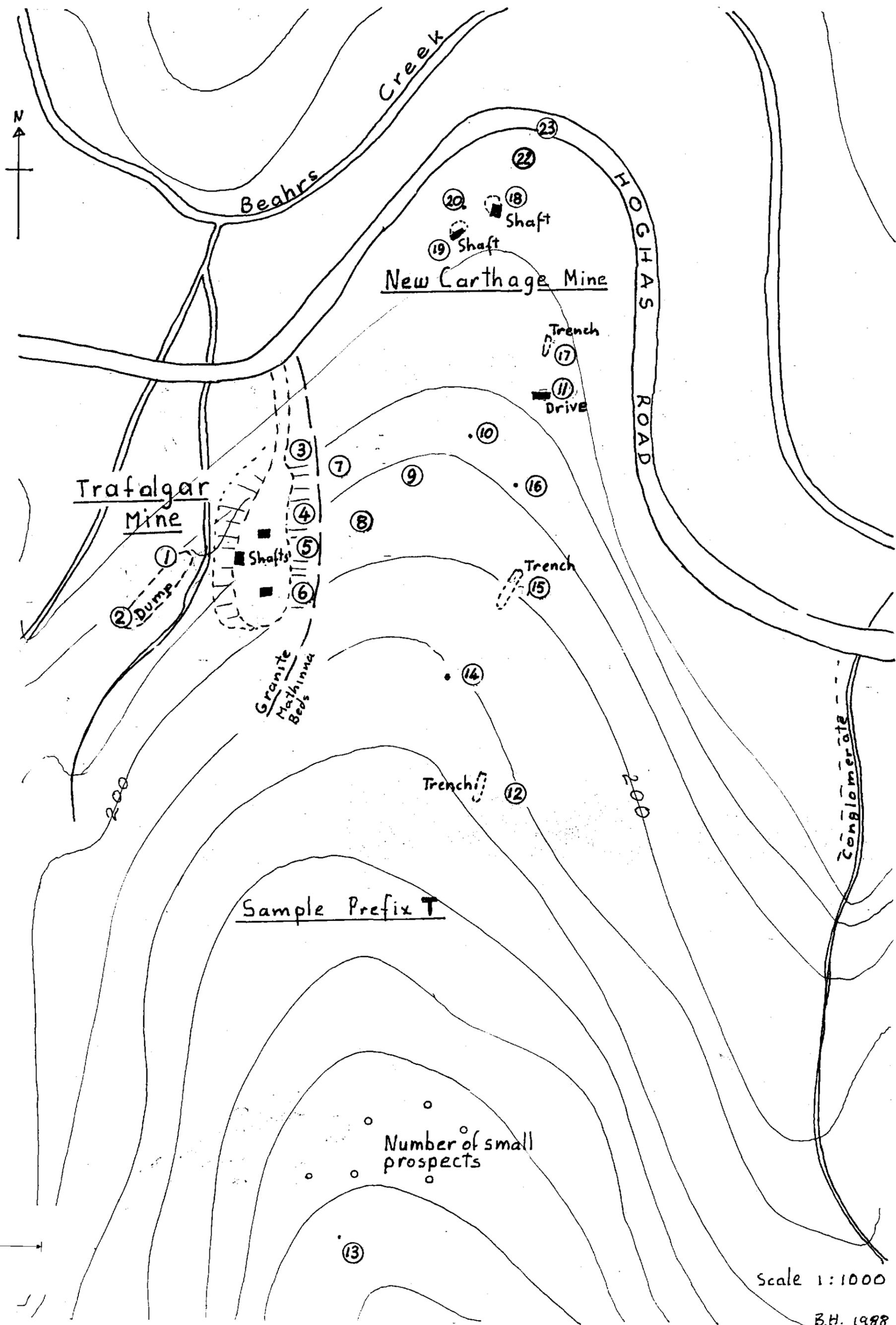
DISTANCE IN METRES.

78-022

SCALE 1:1



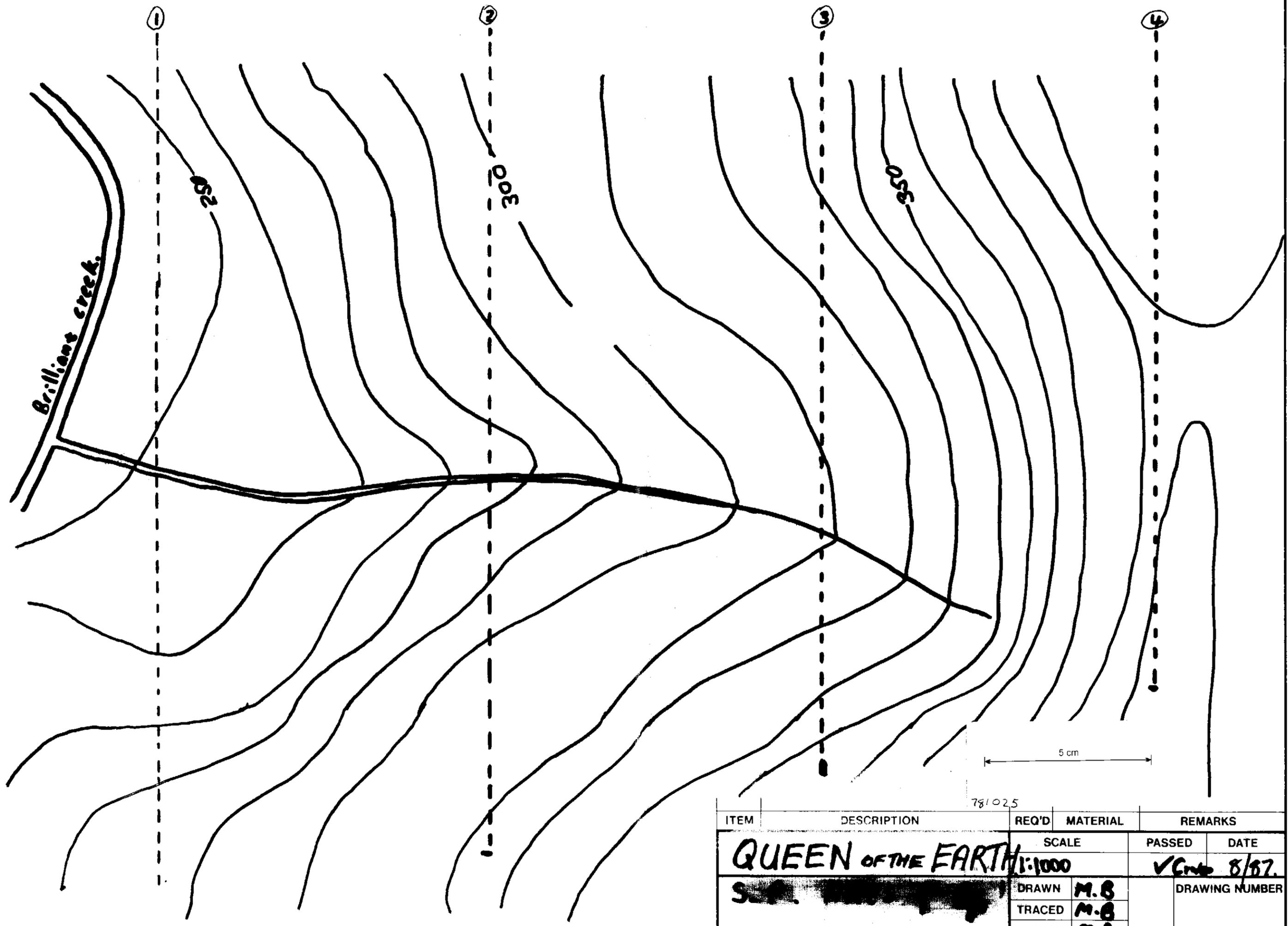
Sampling Sites for Trafalgar & New Carthage Mines



Scale 1:1000

B.H. 1988

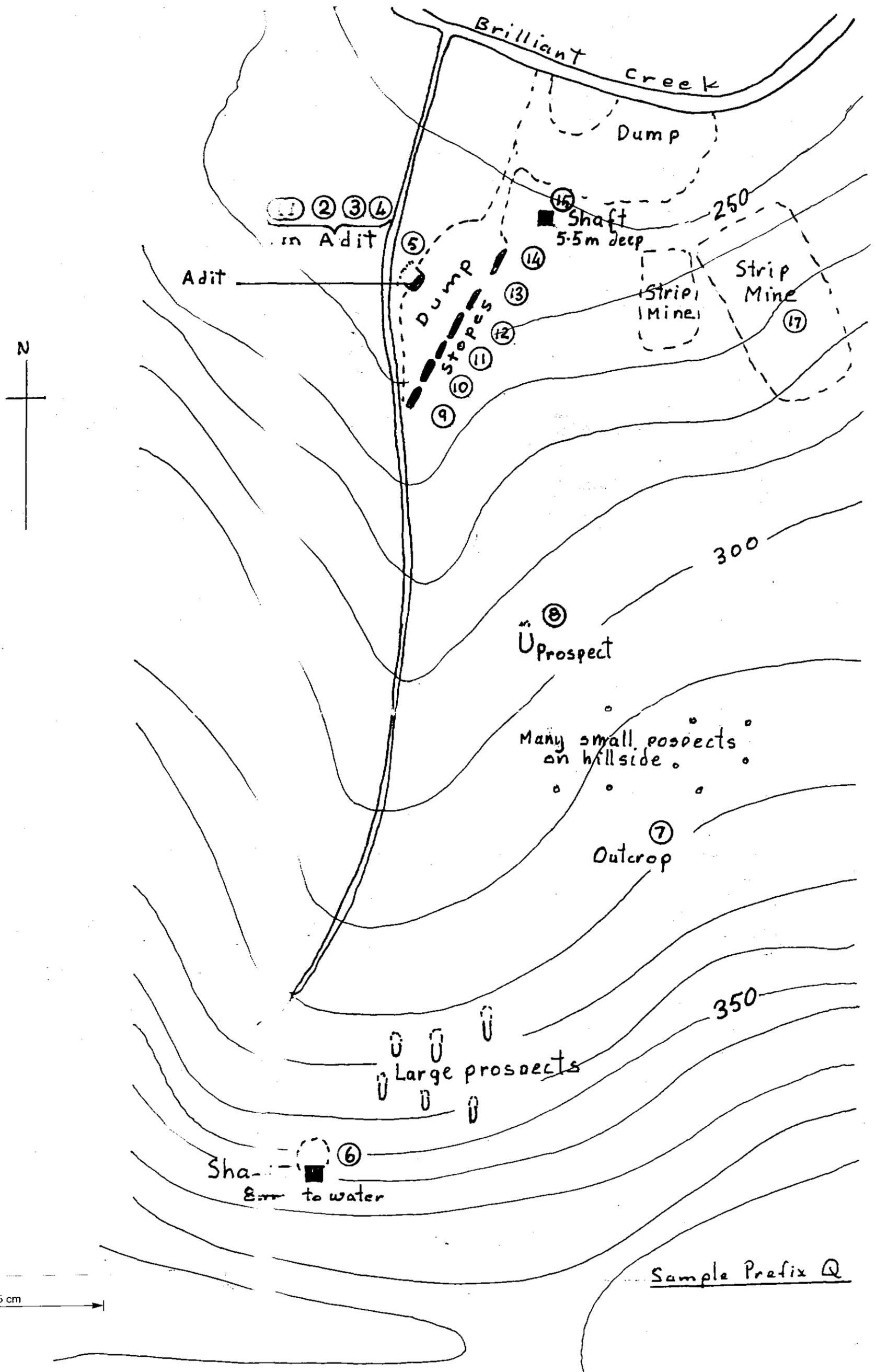
036



781025

ITEM	DESCRIPTION	REQ'D	MATERIAL	REMARKS
	QUEEN OF THE EARTH		SCALE 1:1000	PASSED ✓ Date 8/87.
	S.A. [REDACTED]	DRAWN	M.B.	DRAWING NUMBER
		TRACED	M.B.	
		CHECKED	M.A.	

Sample Sites for Queen of the Earth Mine



781026

0 10m 50m 100m
Scale 1:10000

B.H. 1988

SECTION B

THE SCAMANDER GOLDFIELD

INTRODUCTION

Bulk samples were mined then quartered until they were of 1 kg size, the results and description of sites were recorded and are contained within.

Previous prospecting had proved the country to the West barren and has therefore been dropped.

The two main prospective areas have been taken up under mining leases.

610

SAMPLE POSITIONS - TRAFALGAR

- T 1. Rock of mainly granite types with some altered Mathinna Beds from chips to 100 kgs but mainly 5 to 10 kilograms. Sample of North end of dump.
- T 2. South end of dump.
- T 3. - T 6. East side of Trafalgar Creek from the bank above the level area, around the shafts, is decayed in situ granite which appears to be the country rock of this ridge.
- T 7. Above bank mentioned in T 3 - 6.
- T 8. Along line of yellow dyed trees going straight up slope, **soil auger to full depth**, through clastic soil of sedimentary origin.
- T 9. Clast broken from outcrop on slope along slope North of T 8 sediment fine grained S S with quartz vein .
- T10. Along strike from T 9 headed to edge of Ridge. **Soil sample at full depth of auger.**
- T11. Drive into ridge headed downslope to the West. Sample from hanging wall dipping a 56' to the south sandstone country, rock fine grained uniform.
- T12. Costean on ridge 8 metres long, sandstone fine grained, undifferentiated.
- T13. One of a large number of small prospects. 2M x 1 M. Well up slope from T 12 (about 200M). Same fine grained sandstone. Some small quartz veins but no minerals apparent.
- T14. On ridge, sandstone country, rock in old prospect as for T 13, but full of soil from up slope. **Sample of soil at full extent of Auger.**

- T15. Prospect/Costean in sandstone rock outcrop.
- T16. Prospect (circular) on good outcrop in sandstone.
- T17. Costean below T11 in sandstone in outcrop.
- T18. New Cathage Mine Shaft 7.5 metres deep, probably never any deeper driven through sandstone on ridge. There is about enough winning to fill shaft. Probably dug as a prospect.
- T19. 12 metres S.W. of T18, this shaft is driven down along strike (dip 68' to the south) and appears to follow some alteration. Minerals mainly vein quartz with some grey mineral (hardness $\frac{2}{7.5}$)
- T20. Costean in soil and lasts probably not outcrop but soil and migrated clasts. Sample taken from rocks on top of pile.
- T22. Outcrop about 20 M down slope from T18. Good exposure of massive sandstone, heavily fracturing. No obvious bedding planes but one joint is parallel to the south, shown in two shaft/drives of T11 and T19.
- T23. Chert-altered sandstone.

042

QUEEN OF THE EARTH.

- Q1 & Q2 are from the altered areas at the corner of intersection of adit and rise.
- Q3 Is similar rock to Q4 and Q5 but taken from a vein in a small chamber of the side of the adit.
- Q5. Sample of the small material from dump at the mouth of the adit. Bedding in rock on S.W. side of Creek strike at 30' and dipping N.W. at 85' in creek above Mine.,
- Q6. Shaft near top of ridge. Winnings contain mineralization in sandstone. Depth to water 8 M, foot wall 60' Mag strike dip 65' N.W.
- Q7. Outcrop on side of Hill above adit.
- Q8. Prospect on side of Hill, 100M. Cut into outcrop. Swarms of fine quartz veins in sandstone.
- Q9. Top of main mine in creek extension of stope.
- Q10. Chippings from side of stope footwall and hanging wall.
- Q11. Chipping from down the side of shape from foot wall.
- Q12. Side of stope.
- Q13. This is the area above the shaft that has collapsed. Composite chippings.
- Q14. Samples taken from last stope below the adit. With all of these samples it was very hard to find any rock with mineralization in it as the stopes were cleaned out to both the hanging wall and foot wall to a surface which is either a

643

bedding plane or a surface of a joint and seems unaffected by the emplacement of the auriferous material.

Q15. This is quite a decent shaft, a composite sample of the spoils at the mouth of it.

Q16. Prospect below Q15.

ASSAY RESULTS FOR SCAMANDER GOLDFIELD.

045

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

781034

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.38.08.05449

25/05/88

1 OF 2

TUBE No.	SAMPLE No.	Au	Au (2)	AuChk						
1	Q01	0.08	-	-						
2	Q02	1.04	-	1.27						
3	Q03	0.25	-	0.26						
4	Q04	0.05	-	<0.01						
5	Q05	0.91	-	-						
6	Q06	0.79	-	-						
7	Q07	<0.01	-	-						
8	Q08	<0.01	-	-						
9	Q09	0.03	-	-						
10	Q10	0.08	-	-						
11	Q11	0.09	-	-						
12	Q12	0.03	-	-						
13	Q13	<0.01	-	-						
14	Q14	0.15	-	-						
15	Q15	0.04	-	-						
16	Q16	0.56	-	-						
17	Q17	<0.01	-	-						
18	Q18	<0.01	-	-						
19	T01	0.10	-	-						
20	T02	0.25	-	-						
21	T03	0.07	-	0.08						
22	T04	0.13	-	-						
23	T05	<0.01	-	-						
24	T06	2.02	-	1.84						
25	T07	0.08	-	-						

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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646

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A Division of Macdonald Hamilton & Co. Pty Ltd.

781035

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.38.08.05449

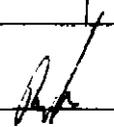
25/05/88

2 OF 2

TUBE No.	SAMPLE No.	Au	Au (2)	AuChk					
1	T08	0.01	-	-					
2	T09	0.02	-	-					
3	T10	<0.01	-	-					
4	T11	0.35	-	-					
5	T12	<0.01	-	-					
6	T13	0.01	-	-					
	T14	0.01	-	-					
8	T15	0.17	-	-					
9	T16	<0.01	-	<0.01					
10	T17	1.49	-	1.40					
11	T18	2.97	-	2.05					
12	T19	6.35	5.09	15.93					
13	T20	0.01	-	-					
14	T22	<0.01	-	-					
15	T23	0.02	-	-					
17									
18									
19									
20									
21									
22									
23	DETECTION	0.01	0.01	0.01					
24	UNITS	PPM	PPM	PPM					
25	METHOD	309	309	309					

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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037

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No.

999.38.08.05449

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

Minstock
84 Wells Rd,
Blackman Bay
Tasmania 7052

DATE RECEIVED

RESULTS REQUIRED

17/05/88

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

25/05/88

1

40

STATE OF SAMPLES	REFER BEH	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		001/18, T01/20, T22/23	RO	Prep:	006,010,011,012	013,016					Au, AuChk/309		
		001/18, T01/20, T22/23	RO	Prep:	006,010,011,012	013,016					Au(2)/309		

REMARKS

Minstock
84 Wells Rd,
Blackman Bay
Tasmania 7052

RESULTS

TO

RESULTS

TO

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemical means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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018

SCALE 1:20 000

Line Scale Factor E for this sheet = 0.99934

CONTOUR INTERVAL 20 METRES

CONVERSION TABLES

METRES TO FEET	FEET TO METRES
1 = 3.281	1 = 0.305
2 = 6.562	2 = 0.610
3 = 9.843	3 = 0.915
4 = 13.124	4 = 1.220
5 = 16.405	5 = 1.525
6 = 19.686	6 = 1.830
7 = 22.967	7 = 2.135
8 = 26.248	8 = 2.440
9 = 29.529	9 = 2.745

1 METRE = 39.37 INCHES



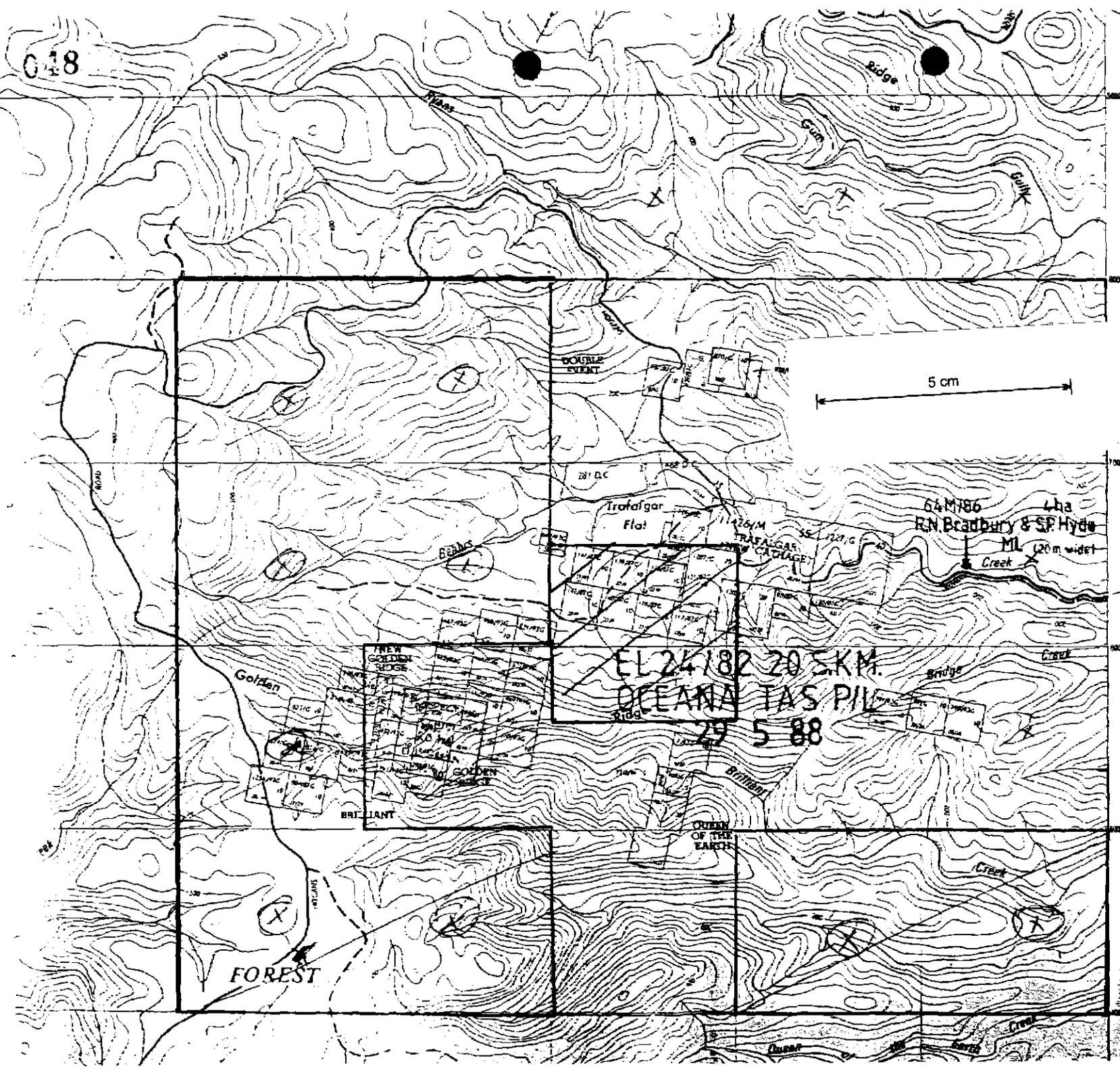
ELEVATIONS IN METRES

1 = 47
2 = 124
3 = 184
4 = 244
5 = 311
6 = 371
7 = 431
8 = 491
9 = 551

1 METRE = 1.0936 YARDS

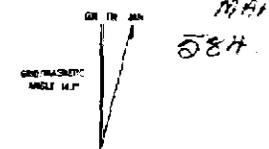


5 cm



EQ
870-165

GEO CONVERGENCE CENTRE OF SHEET = 0.7°



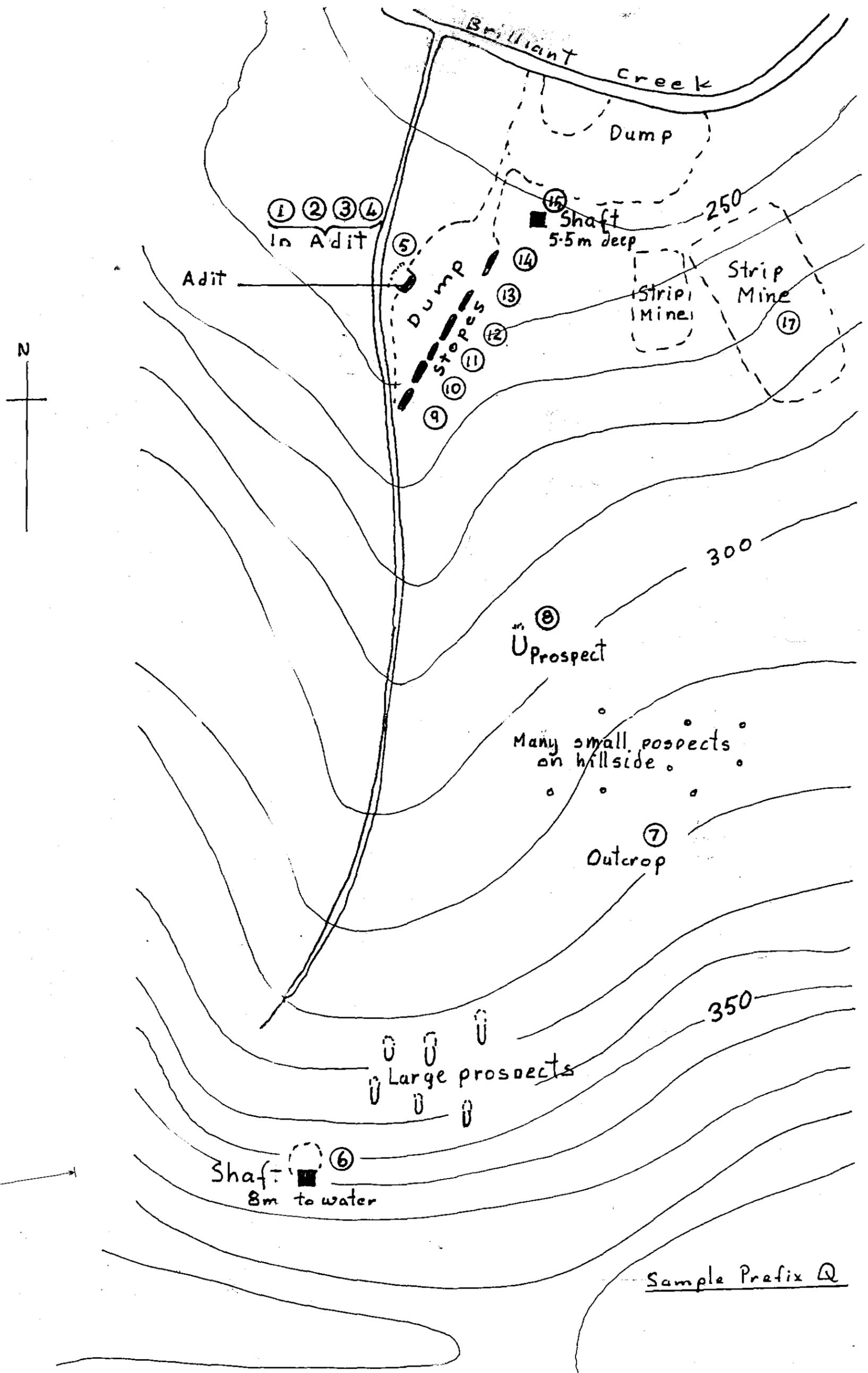
AREA TO BE SURVEYED
OUTLINED IN RED.

LARGE APPLICATION
95M88
MAG REFERENCE SYSTEM

Reference systems for square format maps in
Tasmania may refer to this map as
SHEET 2015041

781036

Sample Sites for Queen of the Earth Mine



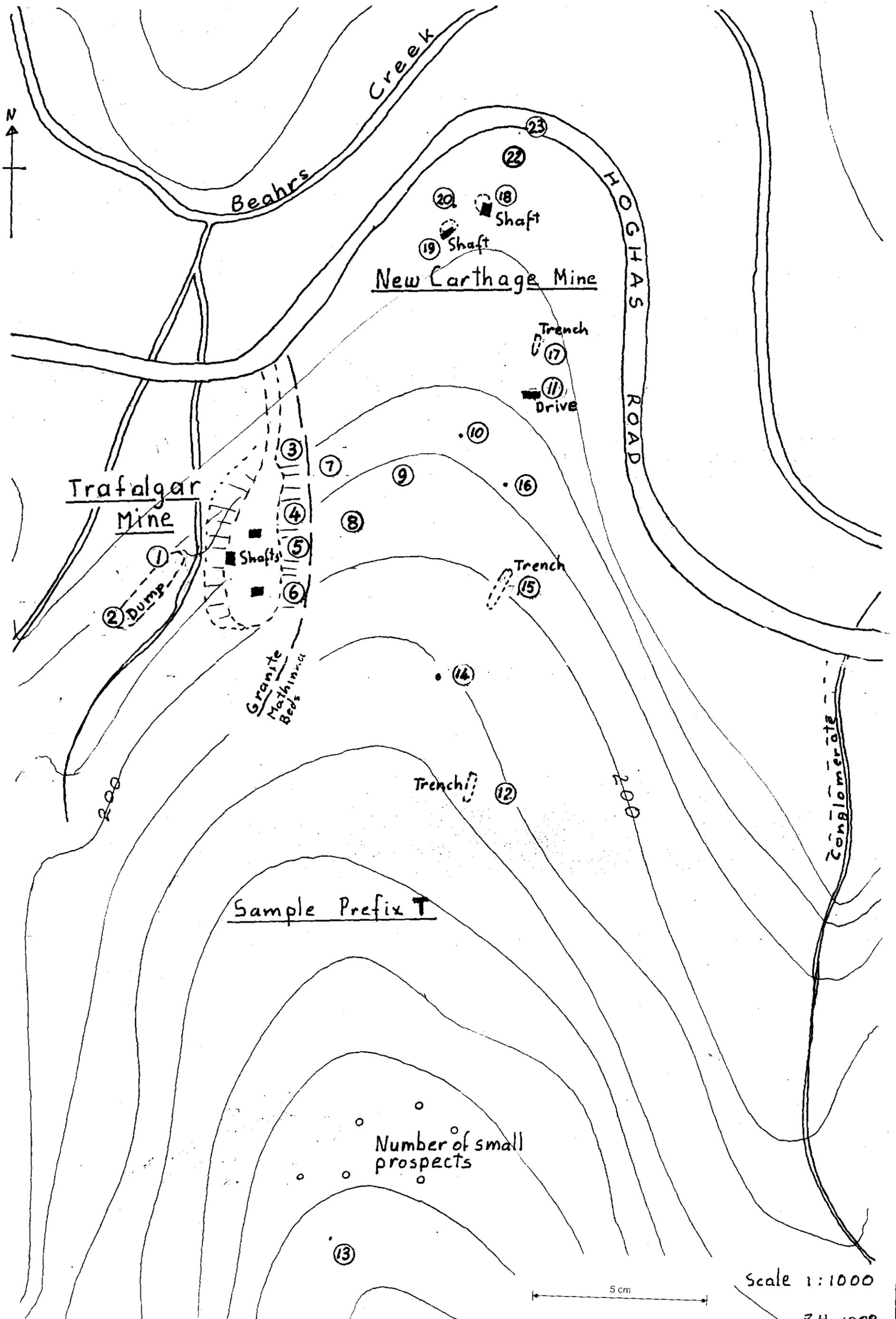
5 cm

781037

0 10m 50m 100m
 Scale 1:1000

B.H. 1988

Sampling Sites for Trafalgar & New Carthage Mines



CENTRAL LOCATION - ANG. 051

587 600 ME

5415 150 MN.

BRIGHT CREEK

MAP SHEET 1120000.



5 cm

781039

① ② ③ ④
In Adit

Adit

⑤

⑬

Shaft
55 m deep

250

Strip Mine

Strip Mine

⑭

⑥

③

④

⑦

⑩

Prospect

Many small prospects
on hillside

⑧

Outcrop

300

Large prospects

350

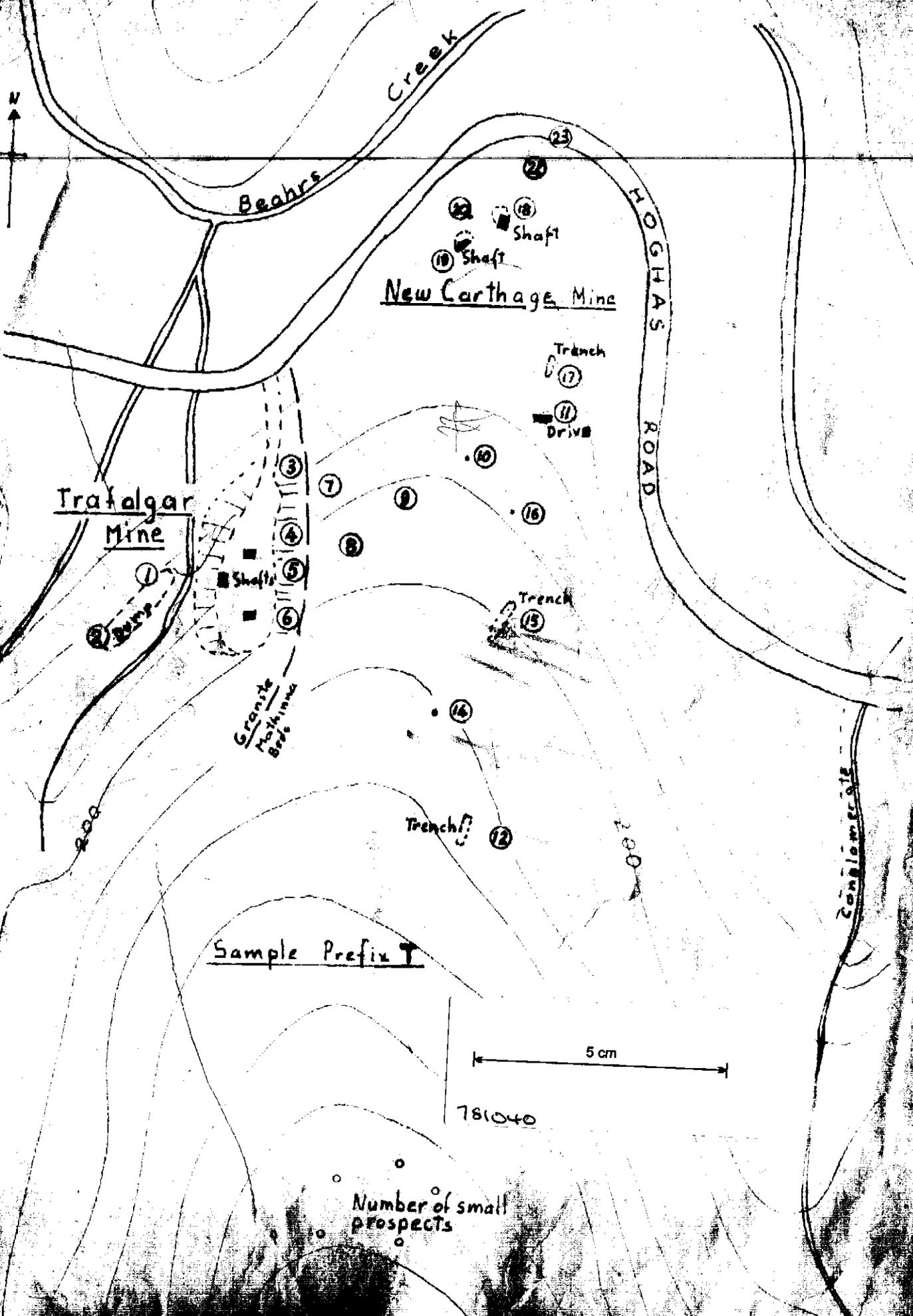
Shaft

Bm to water

⑨

Sample Point

6-1-1959



Sample Prefix T

5 cm

781040

Number of small prospects

000

781041

88-2810

MINES

File Ref. EL 24/82

30 MAY 1988

Doc. Ref.

Action Officer

Initials

COVER SHEET

ON FILE

Re-submit to

Date

NOT RECORDED

OPEN FILE

SCAMANDER GOLDFIELD

E.L. 24/82.

27 MAY 1988

1987 - 1988.

MAY 1988

Olav S. Saarni

THE SCAMANDER GOLDFIELDINTRODUCTION

Bulk samples were mined then quartered until they were of 1 kg size, the results and description of sites were recorded and are contained within.

Previous prospecting had proved the country to the West barren and has therefore been dropped.

The two main prospective areas have been taken up under mining leases.

002

SAMPLE POSITIONS - TRAFALGAR

- T 1. Rock of mainly granite types with some altered Mathinna Beds from chips to 100 kgs but mainly 5 to 10 kilograms. Sample of North end of dump.
- T 2. South end of dump.
- T 3. - T 6. East side of Trafalgar Creek from the bank above the level area, around the shafts, is decayed in situ granite which appears to be the country rock of this ridge.
- T 7. Above bank mentioned in T 3 - 6.
- T 8. Along line of yellow dyed trees going straight up slope, **soil auger to full depth**, through clastic soil of sedimentary origin.
- T 9. Clast broken from outcrop on slope along slope North of T 8 sediment fine grained S S with quartz vein .
- T10. Along strike from T 9 headed to edge of Ridge. **Soil sample at full depth of auger.**
- T11. Drive into ridge headed downslope to the West. Sample from hanging wall dipping a 56' to the south sandstone country, rock fine grained uniform.
- T12. Costean on ridge 8 metres long, sandstone fine grained, undifferentiated.
- T13. One of a large number of small prospects. 2M x 1 M. Well up slope from T 12 (about 200M). Same fine grained sandstone. Some small quartz veins but no minerals apparent.
- T14. On ridge, sandstone country, rock in old prospect as for T 13, **full of soil from up slope.** **Sample of soil at full extent of Auger.**

003

- T15. Prospect/Costean in sandstone rock outcrop.
- T16. Prospect (circular) on good outcrop in sandstone.
- T17. Costean below T11 in sandstone in outcrop.
- T18. New Cathage Mine Shaft 7.5 metres deep, probably never any deeper driven through sandstone on ridge. There is about enough winning to fill shaft. Probably dug as a prospect.
- T19. 12 metres S.W. of T18, this shaft is driven down along strike (dip 68' to the south) and appears to follow some alteration. Minerals mainly vein quartz with some grey mineral (hardness ² 7.5)
- T20. Costean in soil and lasts probably not outcrop but soil and migrated clasts. Sample taken from rocks on top of pile.
- T22. Outcrop about 20 M down slope from T18. Good exposure of massive sandstone, heavily fracturing. No obvious bedding planes but one joint is parallel to the south, shown in two shaft/drives of T11 and T19.
- T23. Chert-altered sandstone.

004

QUEEN OF THE EARTH.

- Q1 & Q2 are from the altered areas at the corner of intersection of adit and rise.
- Q3 Is similar rock to Q4 and Q5 but taken from a vein in a small chamber of the side of the adit.
- Q5. Sample of the small material from dump at the mouth of the adit. Bedding in rock on S.W. side of Creek strike at 30' and dipping N.W. at 85' in creek above Mine.,
- Q6. Shaft near top of ridge. Winnings contain mineralization in sandstone. Depth to water 8 M, foot wall 60' Mag strike dip 65' N.W.
- Q7. Outcrop on side of Hill above adit.
- Q8. Prospect on side of Hill, 100M. Cut into outcrop. Swarms of fine quartz veins in sandstone.
- Q9. Top of main mine in creek extension of stope.
- Q10. Chippings from side of stope footwall and hanging wall.
- Q11. Chipping from down the side of shape from foot wall.
- Q12. Side of stope.
- Q13. This is the area above the shaft that has collapsed. Composite chippings.
- Q14. Samples taken from last stope below the adit. With all of these samples it was very hard to find any rock with mineralization in it as the stopes were cleaned out to both the hanging wall and foot wall to a surface which is either a

605

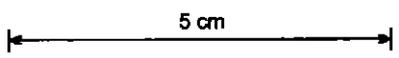
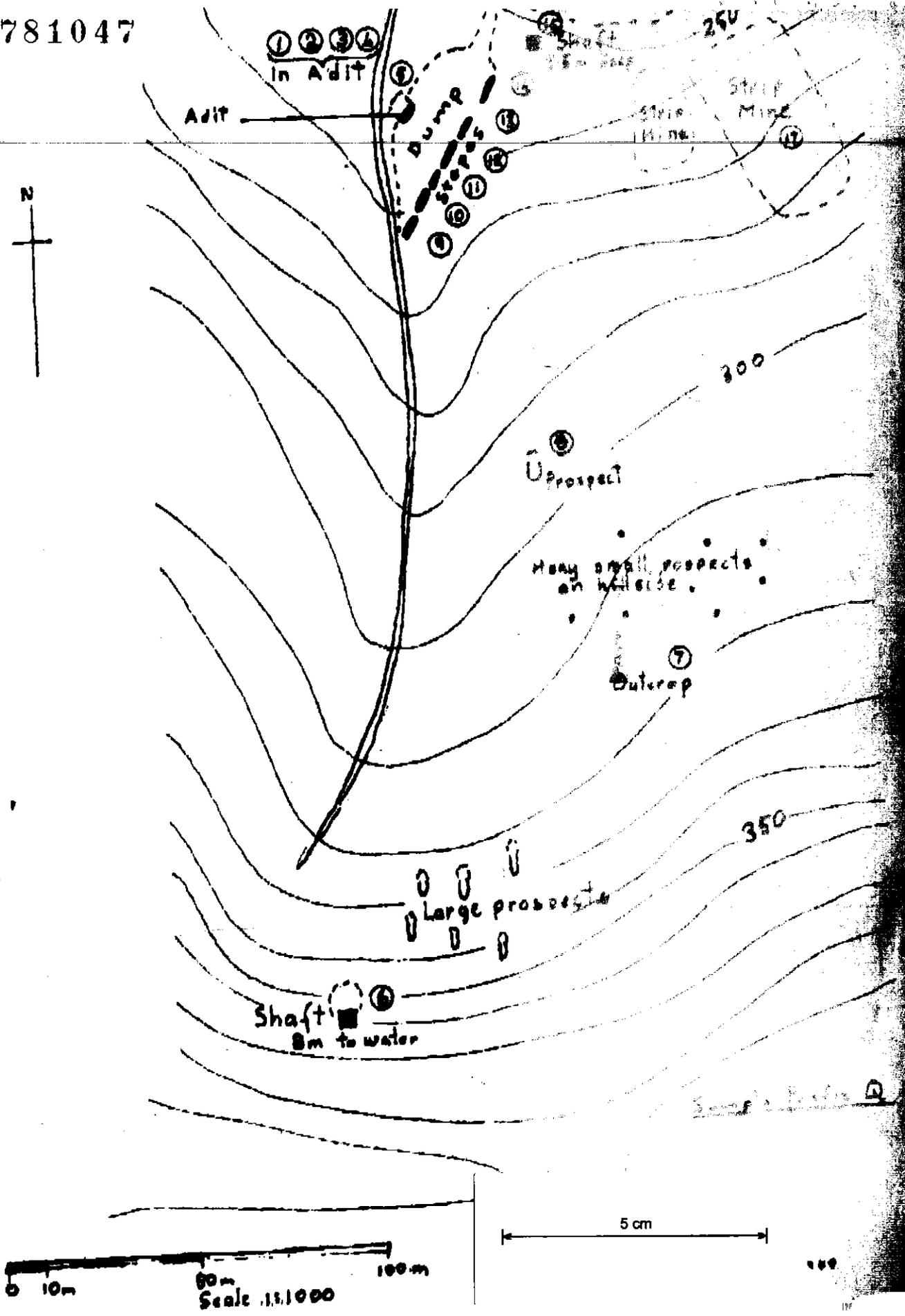
bedding plane or a surface of a joint and seems unaffected by the implacement of the auriferous material.

Q15. This is quite a decent shaft, a composite sample of the spoils at the mouth of it.

Q16. Prospect below Q15.

006 781047

88-2810



007

781048

ASSAY RESULTS FOR SCAMANDER GOLDFIELD.

ANALABS

781049

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W. A. 6106

Telex AA92560

ANALYTICAL REPORT No.

999.38.08.05449

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Minstock
84 Wells Rd,
Blackman Bay
Tasmania 7052

ORDER No.	PROJECT
DATE RECEIVED	RESULTS REQUIRED
17/05/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
2	25/05/88	1	40

STATE OF SAMPLE	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS			
		DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	001/18, T01/20, T22/23	RD								Au, AuChk/309		
	001/18, T01/20, T22/23	RD								Au(2)/309		

RESULTS TO

Minstock
84 Wells Rd,
Blackman Bay
Tasmania 7052

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION			ANALYSIS — METHOD			
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	filtration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
sludge	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER

039

781050

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.38.08.05449

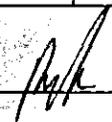
25/05/88

1 OF 2

TUBE No.	SAMPLE No.	Au	Au (2)	AuChk					
1	Q01	0.08	-	-					
2	Q02	1.04	-	1.27					
3	Q03	0.25	-	0.26					
4	Q04	0.05	-	<0.01					
5	Q05	0.91	-	-					
6	Q06	0.79	-	-					
7	Q07	<0.01	-	-					
8	Q08	<0.01	-	-					
9	Q09	0.03	-	-					
10	Q10	0.08	-	-					
11	Q11	0.09	-	-					
12	Q12	0.03	-	-					
13	Q13	<0.01	-	-					
14	Q14	0.15	-	-					
15	Q15	0.04	-	-					
16	Q16	0.56	-	-					
17	Q17	<0.01	-	-					
18	Q18	<0.01	-	-					
19	T01	0.10	-	-					
20	T02	0.25	-	-					
21	T03	0.07	-	0.08					
22	T04	0.13	-	-					
23	T05	<0.01	-	-					
24	T06	2.02	-	1.84					
25	T07	0.08	-	-					

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER



810

ANALABS

781051

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

999.38.08.05449

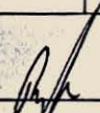
25/05/88

2 OF 2

TUBE No.	SAMPLE No.	Au	Au (2)	AuChk					
1	T08	0.01	-	-					
2	T09	0.02	-	-					
3	T10	<0.01	-	-					
4	T11	0.35	-	-					
5	T12	<0.01	-	-					
6	T13	0.01	-	-					
7	T14	0.01	-	-					
	T15	0.17	-	-					
9	T16	<0.01	-	<0.01					
10	T17	1.49	-	1.40					
11	T18	2.97	-	2.05					
12	T19	6.35	5.09	15.93					
13	T20	0.01	-	-					
14	T22	<0.01	-	-					
15	T23	0.02	-	-					
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	0.01	0.01	0.01					
24	UNITS	PPM	PPM	PPM					
25	METHOD	309	309	309					

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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REDUCTION

SCALE 1:20 000

Line Scale Factor K for this sheet = 0.99959

CONTOUR INTERVAL 20 METRES

METRES	FEET
0	0
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952

1 FOOT = 0.3048 METRES

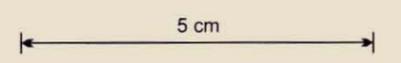
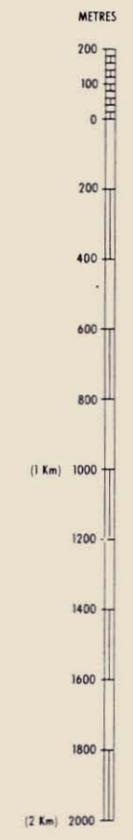
METRES TO FEET
1 = 3.281
2 = 6.562
3 = 9.843
4 = 13.124
5 = 16.404
6 = 19.685
7 = 22.966
8 = 26.247
9 = 29.528

1 MILE = 1.6093 KILOMETRES

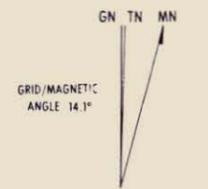
THIS IS A

METRIC MAP

KILOMETRES TO MILES
1 = .62
2 = 1.24
3 = 1.86
4 = 2.49
5 = 3.11
6 = 3.73
7 = 4.35
8 = 4.97
9 = 5.59



GRID CONVERGENCE CENTRE OF SHEET = 0.7"



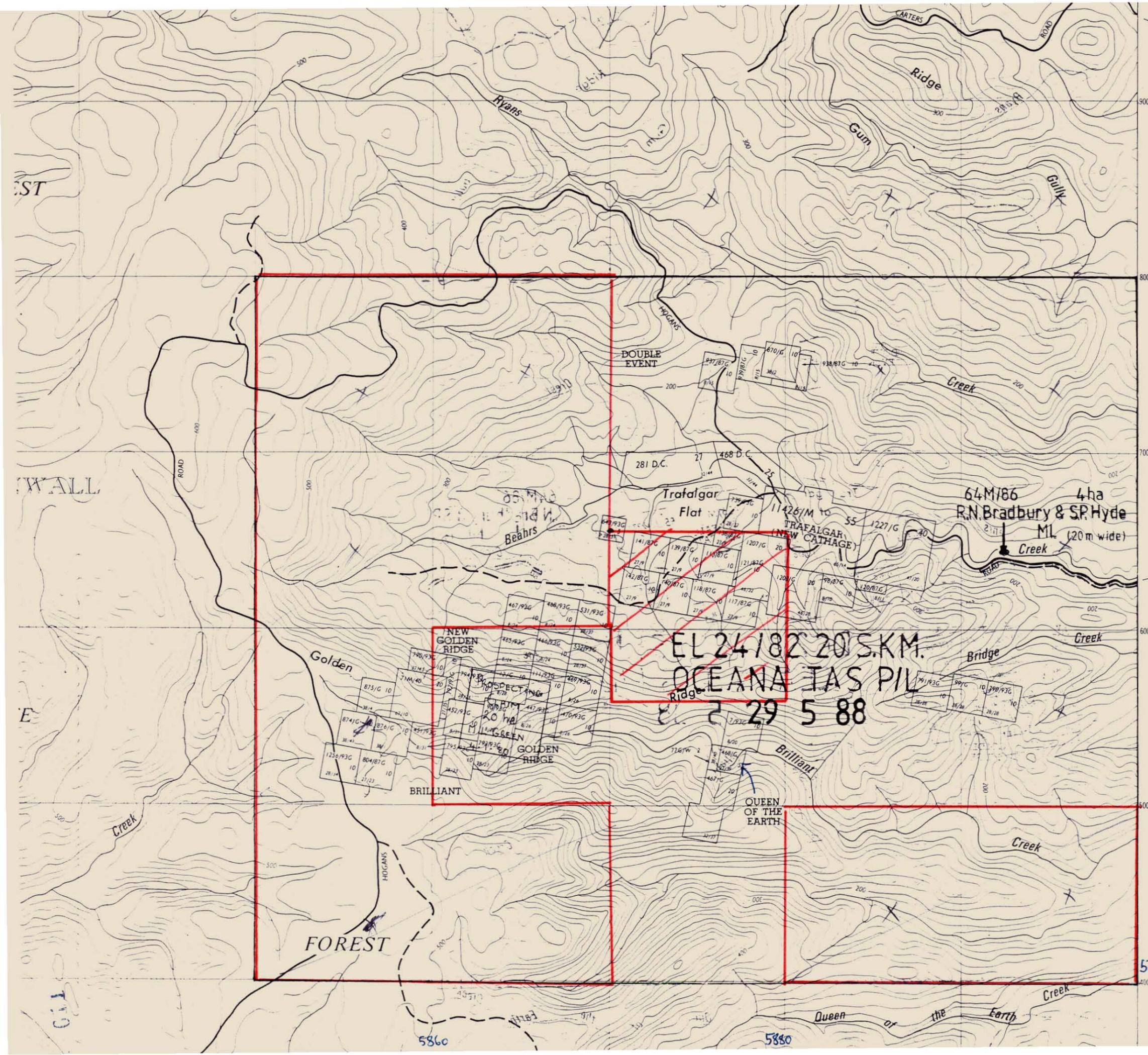
MAGNETIC DECLINATION 1979 APPROX 13.4°
RATE OF CHANGE APPROX +0.1" EVERY 2 YEARS

AREA TO BE SURRENDERED
OUTLINED IN RED.

 LEASE APPLICATION
93M/88
MAP REFERENCE SYSTEM

Reference systems for square format maps in
Tasmania may refer to this map as

54140
88-2810
781052



EL 24182 20 S.K.M.
OCEANA TAS PIL
8 2 29 5 88